

# 21<sup>st</sup> International Workshop on Laser Ranging

5-9 November 2018

John Curtin School of Medical Research  
ANU Main Campus, Canberra, Australia



Australian Government  
Department of Industry and Science

**Business**  
Cooperative Research  
Centres Programme

# 21<sup>st</sup> International Laser Ranging Workshop

## Host – Space Environment Research Centre (SERC)

- Headquartered in Canberra, Australia
- A not-for-profit research organisation funded by the Australian government (34%) and Participants (66%).



EOS Space Research Centre, Mount Stromlo, Canberra



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# SERC Participants

- NICT [Japan]
- Lockheed Martin [USA]
- OPTUS [Australia]
- ANU [Australia]
- RMIT University [Australia]
- EOS Space Systems [Australia]



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SERC is an international research collaboration developing technologies to more accurately predict space object orbits and provide more accurate collision threat warnings.

## SERC Research Programs:



***RP1: Tracking, Characterisation & Identification of Space Objects***



***RP 2: Orbit Determination & Predicting Behaviours of Space Objects***



***RP 3: Space Asset Management***



***RP 4: Space Segment***



# 21<sup>st</sup> International Laser Ranging Workshop

Host city: Canberra, Australia



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**Venue:** John Curtin School of Medical Research

**Theatre capacity:** 200 delegates (tiered seating)

**Breakout rooms:** 3 plus a foyer, mezzanine and theatre

**AV facilities:**

- HD data projector allowing 1 large image or 2 side by side
- 4 wireless lapel microphones, 4 wireless handheld, 2 fixed
- Windows 7, Office 2012, (PC) OSX, Office 2011 (MAC)

**Location:** Garran Road, Acton, ANU Main Campus



John Curtin School of Medical Research, Australian National University

# 21<sup>st</sup> International Laser Ranging Workshop



Hotel Hotel, Acton



Quest Apartment Hotels



University House



QT Canberra



Peppers Gallery Hotel

Conference rates have been negotiated at a range of hotels



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## Social Activities

**Welcome function:** John Curtin School of Medical Research,  
Mon 4 November

**Banquet:** National Arboretum, Wed 7 November

**Tour:** EOS Space Research Centre,  
Fri 9 November

**BBQ:** EOS Space Research Centre,  
Fri 9 November



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## National Attractions, Events and Activities



## International Program Committee

David Ball, SERC (Chair)

James Bennett, EOS Space Systems (Co-chair)

Mike Pearlman, Harvard University

Georg Kirchner, Graz

Daniela Thaller, BKG

Erricos Pavlis, JCET/UMBC

Toshimichi Otsubo, Hitotsubashi University

Yung-Chul Lim, KASI

Mathis Blossfeld, Technischen University

Zhang Zhongping, Shanghai Observatory

Pawel Lejba, Boroweic

Matthew Wilkinson, Herstmonceux

Daniel Kucharski, SERC

Randall Carman, Geosciences Australia

Chris Moore, EOS Space Systems

Michelle Fulton, SERC (Secretariat)





| Time  | Sun 4 Nov                       | Mon 4 Nov                | Tues 6 Nov          | Wed 7 Nov                              | Thurs 8 Nov         | Fri 9 Nov                                                          | Sat 10 Nov                       |
|-------|---------------------------------|--------------------------|---------------------|----------------------------------------|---------------------|--------------------------------------------------------------------|----------------------------------|
|       | Mt Stromlo Observatory          | Medical Research (JCSMR) | JCSMR               | JCSMR                                  | JCSMR               | JCSMR                                                              | Mt Stromlo Observatory           |
| 8:00  | Available for Splinter Meetings |                          |                     |                                        |                     |                                                                    |                                  |
| 9:00  | ASC                             | Workshop Session 1a      | Workshop Session 2a | Workshop Session 3a                    | Workshop Session 4a | Space Debris Workshop 1                                            | Available for committee meetings |
| 10:30 | Morning Tea                     | Morning Tea              | Morning Tea         | Morning Tea                            | Morning Tea         | Morning Tea                                                        | Morning Tea                      |
| 11:00 | ASC                             | Workshop Session 1a      | Workshop Session 2a | Workshop Session 3a                    | Workshop Session 4a | Space Debris Workshop 1                                            | Available for committee meetings |
| 12:30 | LUNCH                           | LUNCH                    | LUNCH               | LUNCH                                  | LUNCH               | LUNCH                                                              | LUNCH                            |
| 13:30 | ASC                             | Workshop Session 1b      | Workshop Session 2b | Workshop Session 3b                    | Workshop Session 4b | Space Debris Workshop 2                                            | Available for committee meetings |
| 15:00 | Afternoon Tea                   | Afternoon Tea            | Afternoon Tea       | Afternoon Tea                          | Afternoon Tea       | Afternoon Tea                                                      | Afternoon Tea                    |
| 15:30 | ASC                             | Workshop Session 1b      | Workshop Session 2b | Clinic Session                         | Wrap up Session     | Space Debris Workshop 3                                            | Available for committee meetings |
| 17:00 | ILRS GB 17:00-tba               | DFPSC/TSC                | NESC                |                                        |                     |                                                                    |                                  |
| 18:00 |                                 | Ice Breaker 18:00-20:00  | MSC 18:00-tba       | Banquet National Arboretum 18:30-23:00 |                     | EOS Space Research Centre Tour & Aussie BBQ Mt Stromlo 18:30-22:00 |                                  |

## Draft program

ASC: Analysis Standing Committee  
 DFPSC: Data Formats and Procedures Standing Committee  
 MSC: Missions Standing Committee  
 NESC: Networks and Engineering Standing Committee  
 TSC: Transponders Standing Committee  
 GB: Governing Board (invitation only)  
 JCSMR: John Curtin School of Medical Research



## Registration fees:

|                      |                       |
|----------------------|-----------------------|
| Standard earlybird - | \$550 AUD (\$412 USD) |
| Student earlybird -  | \$300 AUD (\$224 USD) |
| Standard full -      | \$620 AUD (\$464 USD) |
| Student full -       | \$395 AUD (\$296 USD) |
| Dinner -             | \$130 AUD (\$97 USD)  |

**Registrations open:** 01 November 2017

## Websites:

<http://www.serc.org.au/ilrs-2018/>

<https://conlog.eventsair.com/iwrr->

<international-workshop-on-laser-ranging/eoi>

Transactions will be charged in Australian Dollars



# A taste of what Canberra has to offer.....





[serc.org.au](http://serc.org.au)

[info@serc.org.au](mailto:info@serc.org.au)

 [facebook.com/serc.aus](https://facebook.com/serc.aus)

 [@serc\\_au](https://twitter.com/serc_au)



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